or had	
4 760	
-A214	
AD-	

KEPORT DO	CUMENTATION	PAGE 4		Form Approved OMB No. 0704-0188
Public resorrang burden for this collection of inform gethering and maintenance; the data received and collection of left-mainten, industring suppressions for Davis High-hard publics, 2 this USB, Artispen, vA 22382-436	etion is estimated to overage I nour relating and reviewing the collection	r per resease, including the time in of information. Send commer	ne for reviewing use the requirement this b	tructions, searching existing data to irden estimate or any other espect (
1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 1 Feb 84	3. REPORT TYPE Quarterly		pment (1 Jul 83/
4. TITLE AND SUSTITLE				ONG NUMBERS
ATTENUATION IN THE WES	TERN GREAT BASIN		ı	
& AUTHORIS)		<del></del>	61	101E
a summy			AO	4397
Drs. Keith F. Priestle	y & Alan S. Ryall	1		
7. PERFORMING ORGANIZATION NAM	E(S) AND ADDRESS(ES)			ORMING ORGANIZATION
Universtiy of Nevanda				mi nemeta
Reno, NV 89557			1	
		N-CO-K	· <b>*</b> *	9-1447
). SPONSORING/MONITORING AGENC	Y NAME(S) AND ADDRESS	K(ES)		NSORING/MONITORING NCY REPORT NUMBER
AFOSR BLDG 410				
BAFB DC 20332-6448				F49620-83-C-001
IA CITED CACADANA MAGAZ		<del></del>	L_	
11. SUPPLEMENTARY MOTES				
	•	ŗ		
12a. DISTRIBUTION/AVAILABILITY STA	ATEMENT		12b. Di	TRIBUTION CODE
	ed for public			
distrik	oution and I al			
13. ABSTRACT (Maximum 200 words)				
	orting pariod. 4	(1) Brought SRO	data for	
Progress during the rep Hot Creek Valley from S	occipp s rrime to	O Seismology La	DOTATOTA	× Kaaanaa as
Progress during the rep Hot Creek Valley from S difficulties in reading	cripp's Frime to	o Seismology La	boratory.	because of
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	g prime tape formatime (2) Reanalyza	o Seismology La at on the PDP l ed regional dat	boratory. 1/70, it a across	because of
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	g prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	Secause of was decided to NTS.
Progress during the rep Hot Creek Valley from S difficulties in reading	g prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>- Because of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>Fecause of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>Fecause of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>- Because of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>- Because of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	- Because of was decided to NTS.
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	<pre>- Because of was decided to NTS. ,</pre>
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	prime tape formatime (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	1/70, it a across	- Because of was decided to NTS.  ,  15. NUMBER OF PAGES
Progress during the rep Hot Creek Valley from S difficulties in reading analysis data on the pr	g prime tape formatime, (2) Reanalyza	o Seismology La at on the PDP 1 ed regional dat	boratory, 1/70, it a across	- Because of was decided to NTS.  ,  15. NUMBER OF PAGES 3

89 11 20 065 Standard Form 298 (890104 Draft)



## UNIVERSITY OF NEVADA RENO NEVADA -89557

Mackay School of Mines Seismological Laboratory

Telephone (702) 784-4975

1 February 1984

89-1447

Quarterly Research and Development Status Report

No. 4

1 July 1983 - 30 September 1983

Accesio For NTIS CRASI DTIC TAB Unammo . . . . . .

ARPA Order:

4397

Program Code:

3D60

Name of Grantee:

University of Nevada - Reno

**Grant Expiration Date** 

30 September 1984

Amount of Grant:

\$203,692

Grant Number:

49620-83-C-0012

Principal Investigators:

Keith F. Priestley

Alan S. Ryall

Program Manager:

Keith F. Priestley

Short Title of Work:

ATTENUATION IN THE WESTERN

**GREAT BASIN** 

Sponsored by Advanted Research Projects Agency (DOD) ARPA Order No. 4397 Monitored by AFOSR Under Grant 49620-83-C-0012

## 1. Research Program and Plan

- (a) Operate three wideband, digital seismic stations in the western Great Basin as a dispersed network.
- (b) Use data from these stations to examine variations in  $m_b$  and  $t^*$  from area to area in the western Great Basin.
- (c) Investigate ways in which high-quality digital stations may be used to improve seismic verification at regional distance ranges.
- (d) Study variations in the attenuation operator for multiple  $S_cS$  recorded at western U.S. stations.
- (e) Study  $m_b/M_s$  relationships for Mammoth earthquake sequence.

## 2. Status of Project

- (a) Progress During the Reporting Period:
  - (1) Brought SRO data for events recorded in Hot Creek Valley from Scripp's Prime to Seismology Laboratory because of difficulties in reading Prime tape format on the PDP 11/70, it was decided to analysis data on the Prime.
  - (2) Reanalyzed regional data across NTS.
- (b) Major Equipment Purchased During Reporting Period: None.
- (c) Change in Key Personnel During the Reporting Period: None.
- (d) Trips, Meetings, Papers Given During the Reporting Period:
- (1) Priestley's travel:
  - (a) to LaJolla, Calif. to copy SRO tapes.
  - (b) to Switzerland and Germany to attend CCSS and IUGG meetings; presented paper on southern Nevada data.
- (2) Ryall's travel:
  - (a) 7/27-28 DARPA panel meeting to review TTBT procedures + research. Washington, D.C.
- (e) Problems Encountered: Reading Prime data format.
- (f) No deviation in the planned effort to achieve the objective of the contract is anticipated.
- (g) Fiscal Status:
  - 1. Amount currently provided in contract: \$203,692

- 2. Expenditures and commitments to date: \$34,863
- 3. Estimated funds required to complete this work: \$203,692
- 4. Estimated date of completion of work: 30 September 1984